

BAT64-04~BAT64-06

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 Volt **CURRENT** 0.25Ampere

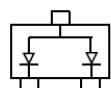
SOT-23 Unit:mm

FEATURES

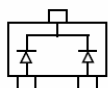
- Integrated diffused guard ring
- Low forward voltage
- Lead free in compliance with EU RoHS

MECHANICAL DATA

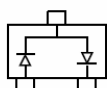
- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



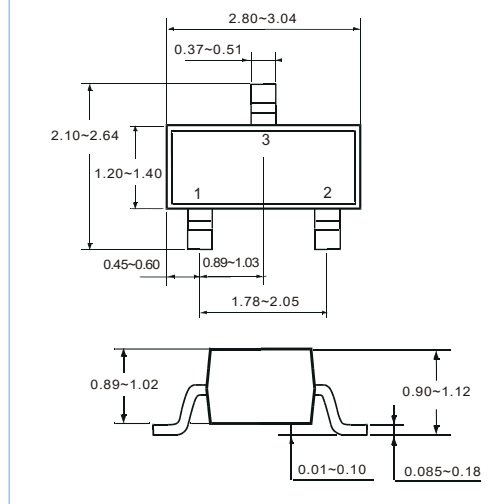
BAT64-06 MARKING: 66S



BAT64-05 MARKING: 65S



BAT64-04 MARKING: 64S



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

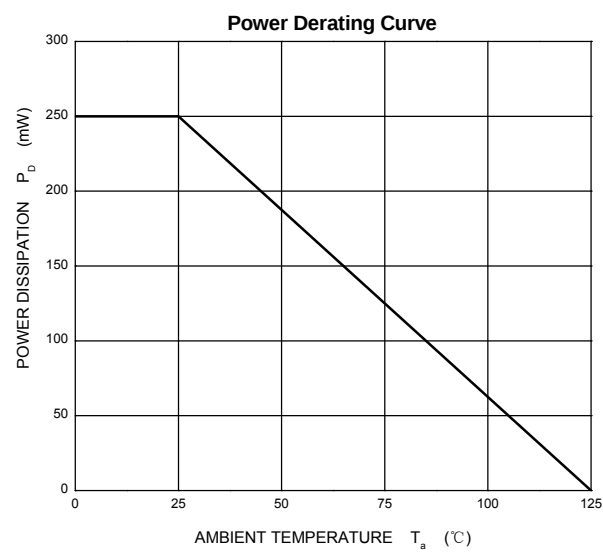
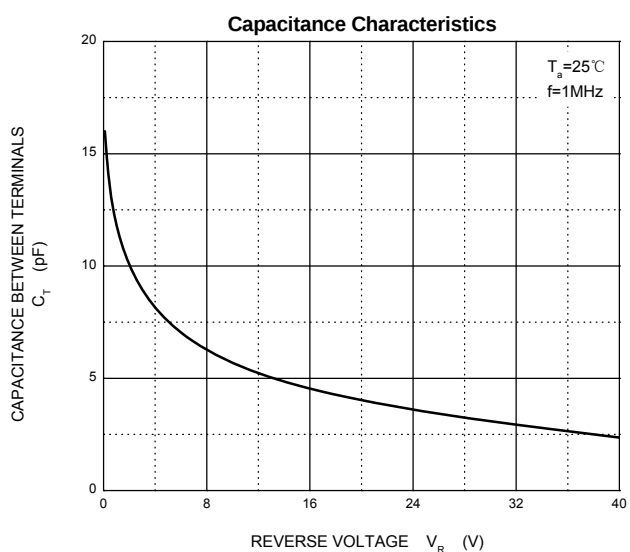
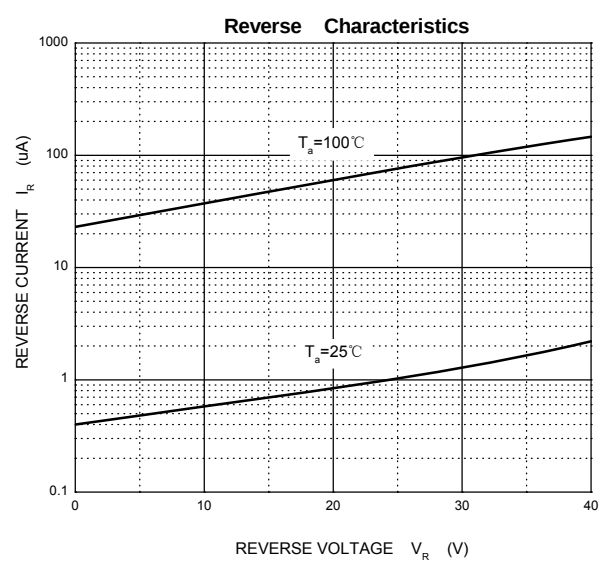
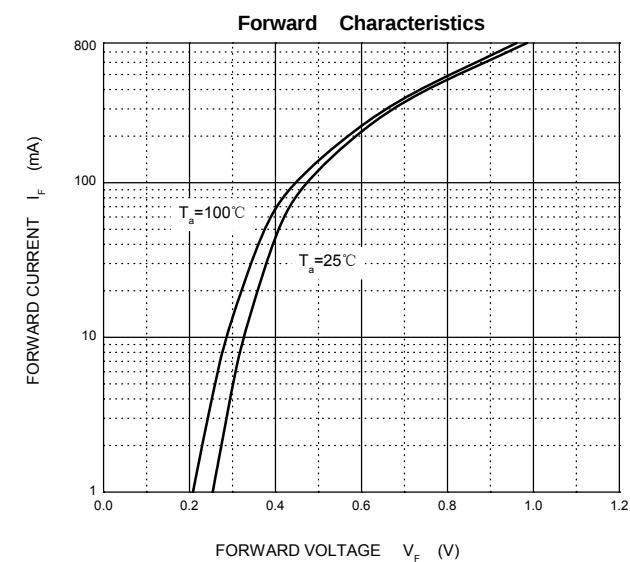
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_{FM}	250	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	800	mA
Power Dissipation	P_D	250	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	400	$^{\circ}\text{C/W}$
Junction Temperature	T_j	125	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	40			V	$I_R=10\mu\text{A}$
Forward voltage	V_F			0.35	V	$I_F=1\text{mA}$
				0.43	V	$I_F=10\text{mA}$
				0.52	V	$I_F=30\text{mA}$
				0.75	V	$I_F=100\text{mA}$
Reverse current	I_R			2	μA	$V_R=25\text{V}$
Diode capacitance	C_D		6		pF	$V_R=1\text{V}, f=1\text{MHz}$

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Typical Characteristics

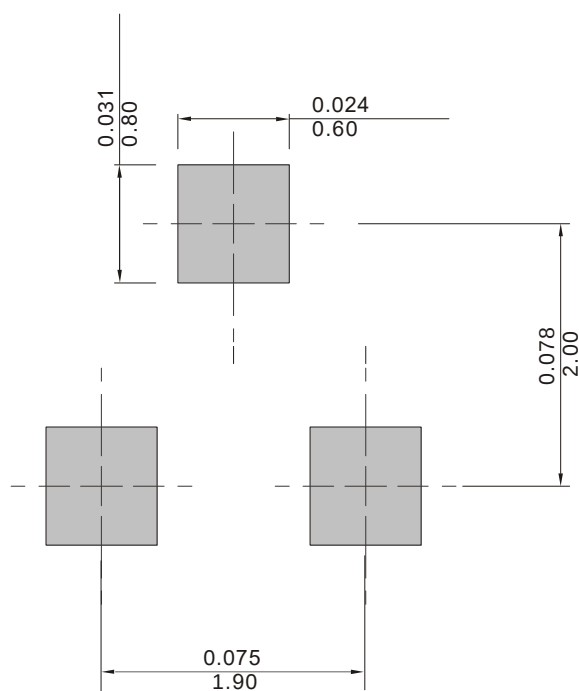


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAT64-04~BAT64-06	SOT-23	7 Inch	3000